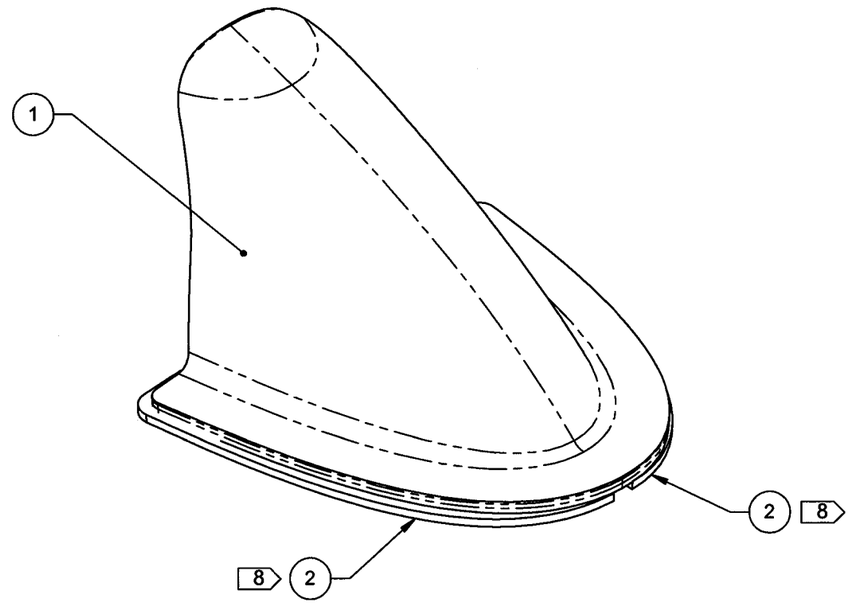
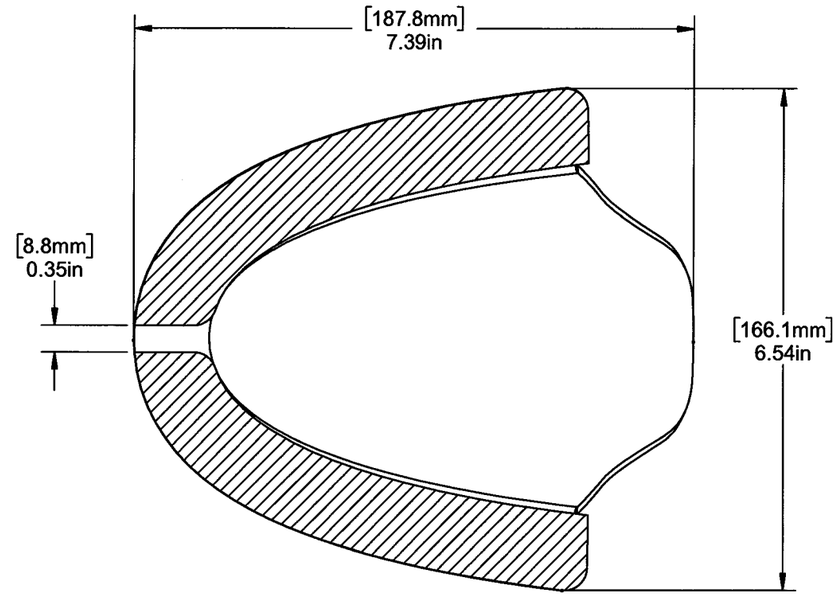
| ITEM | QTY -041 | P/N | DESCRIPTION |
|---|---|---|---|
| | X | D4857-041 | WIPER DEFLECTOR ASSY |
| | | | |
| 1 | 1 | D4857-1 | WIPER DEFLECTOR |
| 2 | 2 | D4944-1 | GASKET |




## D4857-041 WIPER DEFLECTOR ASSY

NOTES:
1) MATERIAL: N/A
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: IDENTIFY WITH DART P/N D4857-041, REVISION, BATCH NUMBER, AND DATE OF MANUFACTURE, AS PER QSI 044 METHOD 6.1
7) WEIGHT: 0.38 lbs (0.17 kg)
8) BOND D4944-1 GASKETS TO EDGE OF PART USING DOW CORNING 736 ADHESIVE

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HB ECR 2021-36

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| H | UPDATE LAYUP OF LAYERS FOR DOME AND FLANGE, REF ECR 36 | SAD | 21.02.12 |
| G | REMOVED MOUNTING HOLES ON -041, -1. REF CAR18-218 | RF | 19.07.09 |
| F | SHT 1 ADDED -041. ADDED D4857-2M (SHEET 8) AND RELABELED D4857-M TO D4857-1M (ZN B5-7). UPDATED D4757-044 (ZN B5-3). REVISED NOTES 1, 8 AND 10 (ZN A8-4, ZN A8-5, ZN A8-6, ZN A8-7, ZN A8-8). UPDATE PART WEIGHTS | AK / AJS | 15.06.03 |
| E | REVISE NOTE 6) (ZN A8-1, A8-2, A8-3); AND NOTE 8) (ZN A8-1, A8-2, A8-3) | AK | 14.06.05 |
| D | ADDED D4857-043 (ZN C7-1), D4857-044 (ZN C7-2), D4857-3 (ZN C7-4), D4857-4 (ZN C7-5) AND D4857-M (ZN C7-6) | AK | 14.05.13 |
| C | ADDED 4 MOUNTING HOLES | DW | 13.12.09 |
| B | REVISED BOM, DRAWING VIEWS, NOTES | PB | 13.08.13 |
| A | NEW RELEASE | DB | 13.05.23 |

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| | |
|---|---|
| DESIGN | DW |
| DRAWN | SAD |
| CHECKED | RF |
| MFG. APPR. | JFS |
| APPROVED | CP |
| DE APPR. | CP |
| DATE | 21.02.12 |

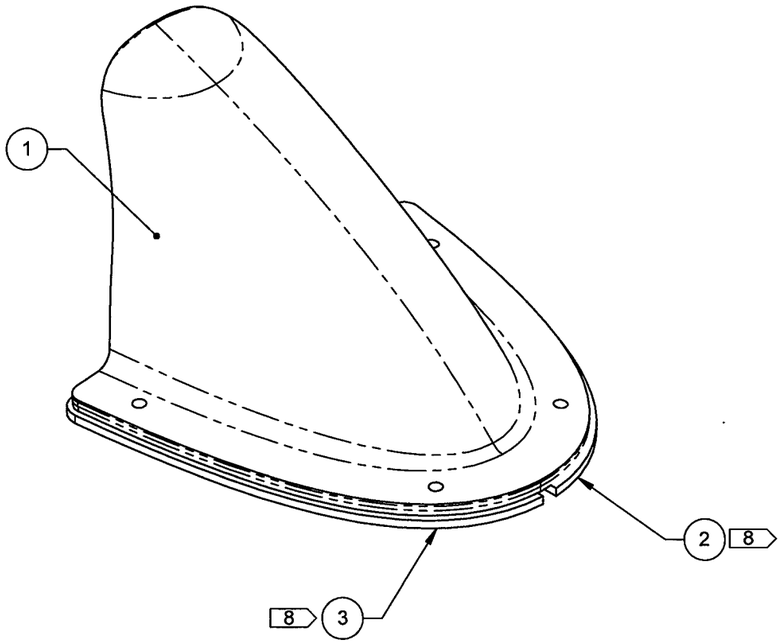
**DART AEROSPACE LTD**
HAWKESBURY, ONTARIO, CANADA

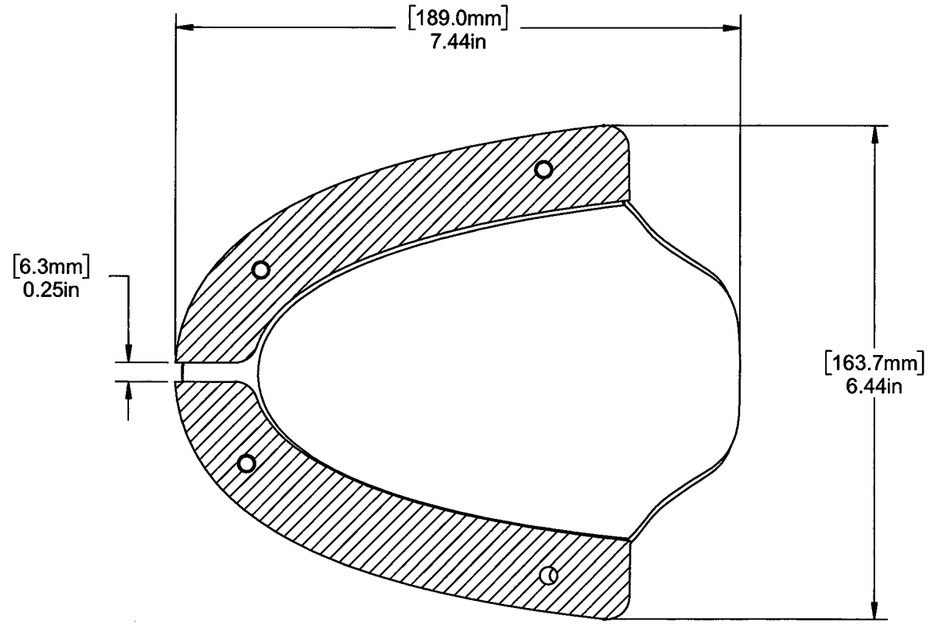
DRAWING NO. D4857 REV. H
SHEET 1 OF 8

TITLE WIPER DEFLECTOR
SCALE NTS

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| ITEM | QTY -043 | P/N | DESCRIPTION |
|---|---|---|---|
| | X | D4857-043 | WIPER DEFLECTOR ASSEMBLY, LH |
| | | | |
| 1 | 1 | D4857-3 | WIPER DEFLECTOR LH |
| 2 | 1 | D5117-1 | GASKET |
| 3 | 1 | D5117-3 | GASKET |




## D4857-043 WIPER DEFLECTOR ASSEMBLY, LH

NOTES:
1) MATERIAL: N/A
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N D4857-043, REVISION, BATCH NUMBER, AND DATE OF MANUFACTURE, AS PER QSI 044 METHOD 6.1
7) WEIGHT: 0.38 lbs (0.17 kg)
8) BOND D5117-1/-3 GASKETS TO EDGE OF PART USING DOW CORNING 736 ADHESIVE

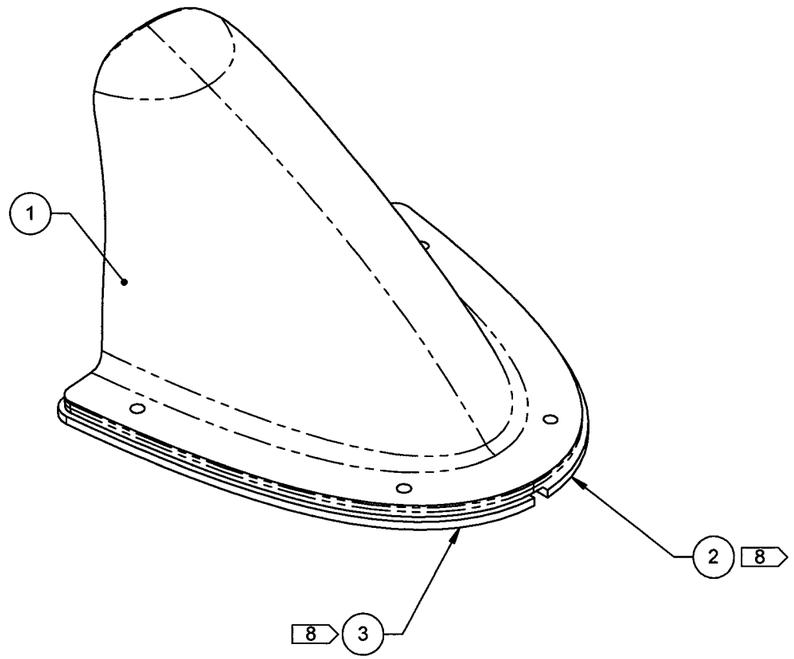
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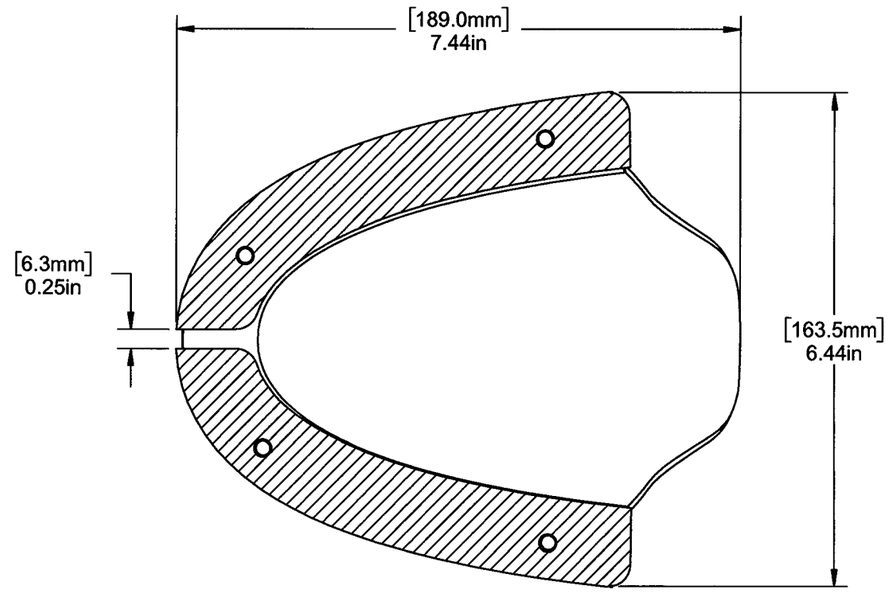
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| DRAWN | SAD | |
| CHECKED | RF | DRAWING NO. D4857 REV. H |
| MFG. APPR. | JFS | SHEET 2 OF 8 |
| APPROVED | CP | TITLE WIPER DEFLECTOR SCALE NTS |
| DE APPR. | CP | |
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| ITEM | QTY -044 | P/N | DESCRIPTION |
|---|---|---|---|
| | X | D4857-044 | WIPER DEFLECTOR ASSEMBLY, RH |
| | | | |
| 1 | 1 | D4857-4 | WIPER DEFLECTOR |
| 2 | 1 | D5117-5 | GASKET |
| 3 | 1 | D5117-7 | GASKET |




## D4857-044 WIPER DEFLECTOR ASSEMBLY, RH

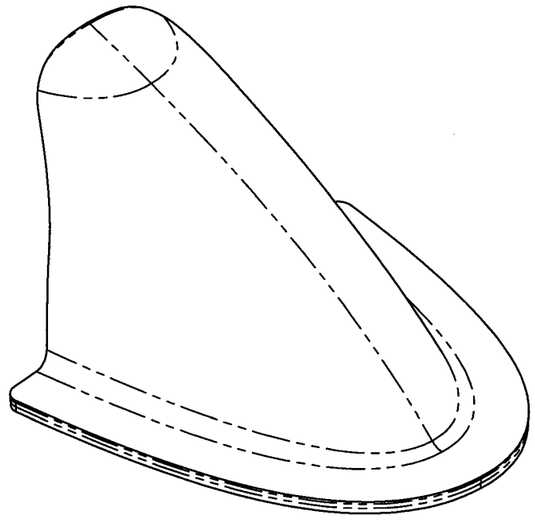
NOTES:
1) MATERIAL: N/A
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N D4857-044, REVISION, BATCH NUMBER, AND DATE OF MANUFACTURE, AS PER QSI 044 METHOD 6.1
7) WEIGHT: 0.38 lbs (0.17 kg)
8) BOND D5117-5/-7 GASKETS TO EDGE OF PART USING DOW CORNING 736 ADHESIVE

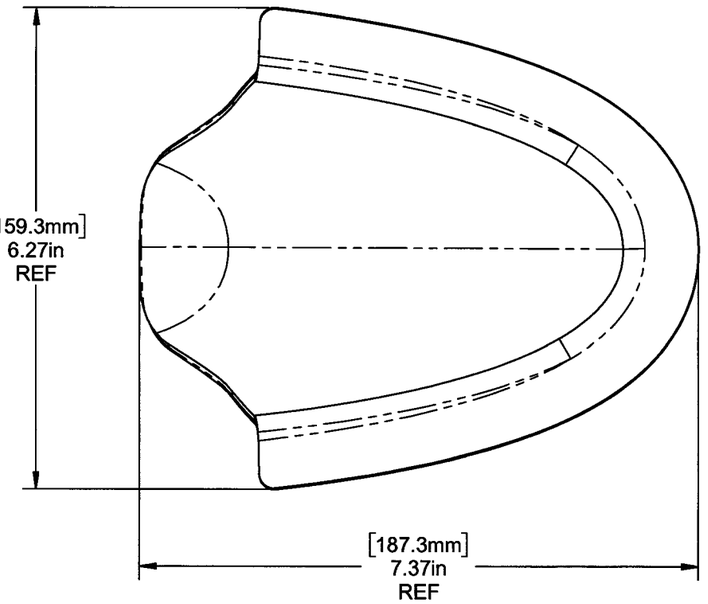
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| DESIGN | DW | DART AEROSPACE LTD |
| DRAWN | SAD | HAWKESBURY, ONTARIO, CANADA |
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| MFG. APPR. | JFS | SHEET 3 OF 8 |
| APPROVED | CP | TITLE WIPER DEFLECTOR SCALE NTS |
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## D4857-1 WIPER DEFLECTOR

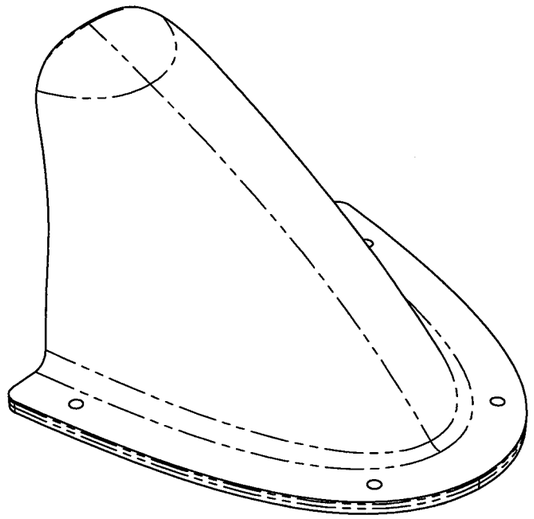
NOTES:
1) MATERIAL: MADE FROM D4857-M
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: N/A
7) WEIGHT: 0.35 lbs (0.16 kg)
8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-1-H.IGES (OR D4857-1-H.STEP)

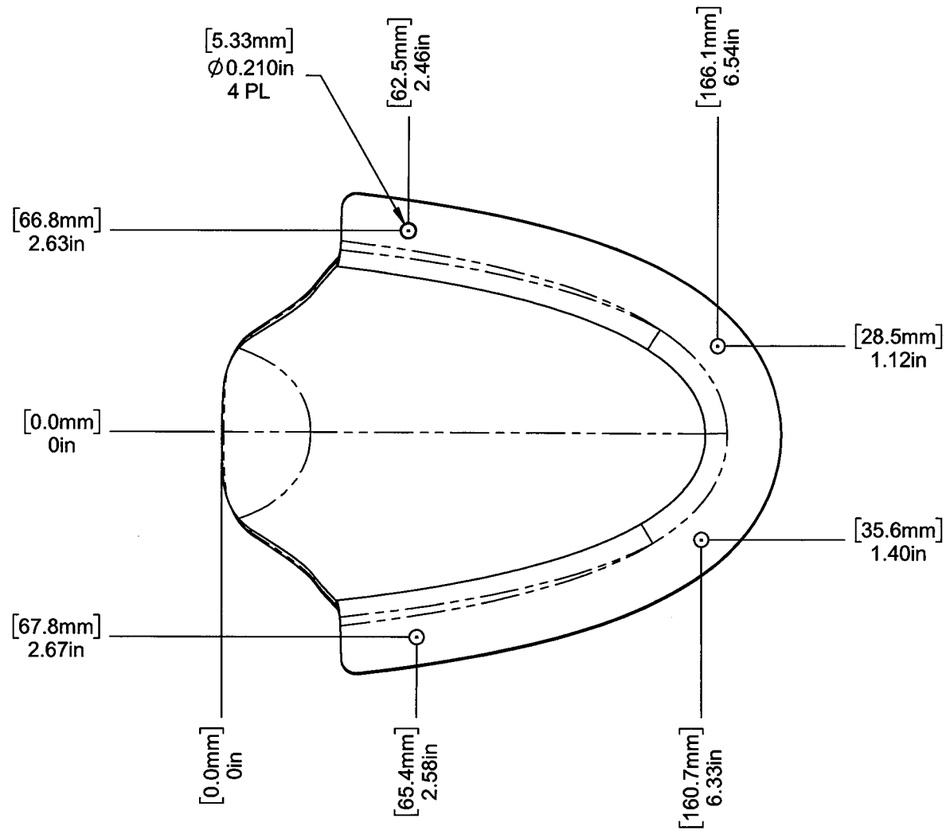
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| DESIGN | DW | **DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA |
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| MFG. APPR. | JFS | SHEET 4 OF 8 |
| APPROVED | CP | TITLE WIPER DEFLECTOR SCALE NTS |
| DE APPR. | CP | |
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## D4857-3 WIPER DEFLECTOR, LH

NOTES:
1) MATERIAL: MADE FROM D4857-M
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: N/A
7) WEIGHT: 0.35 lbs (0.16 kg)
8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-3-H.IGES (OR D4857-3-H.STEP)

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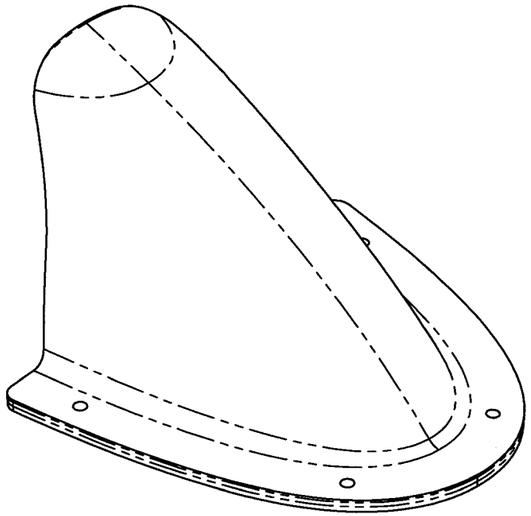
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| DE APPR. | CP |
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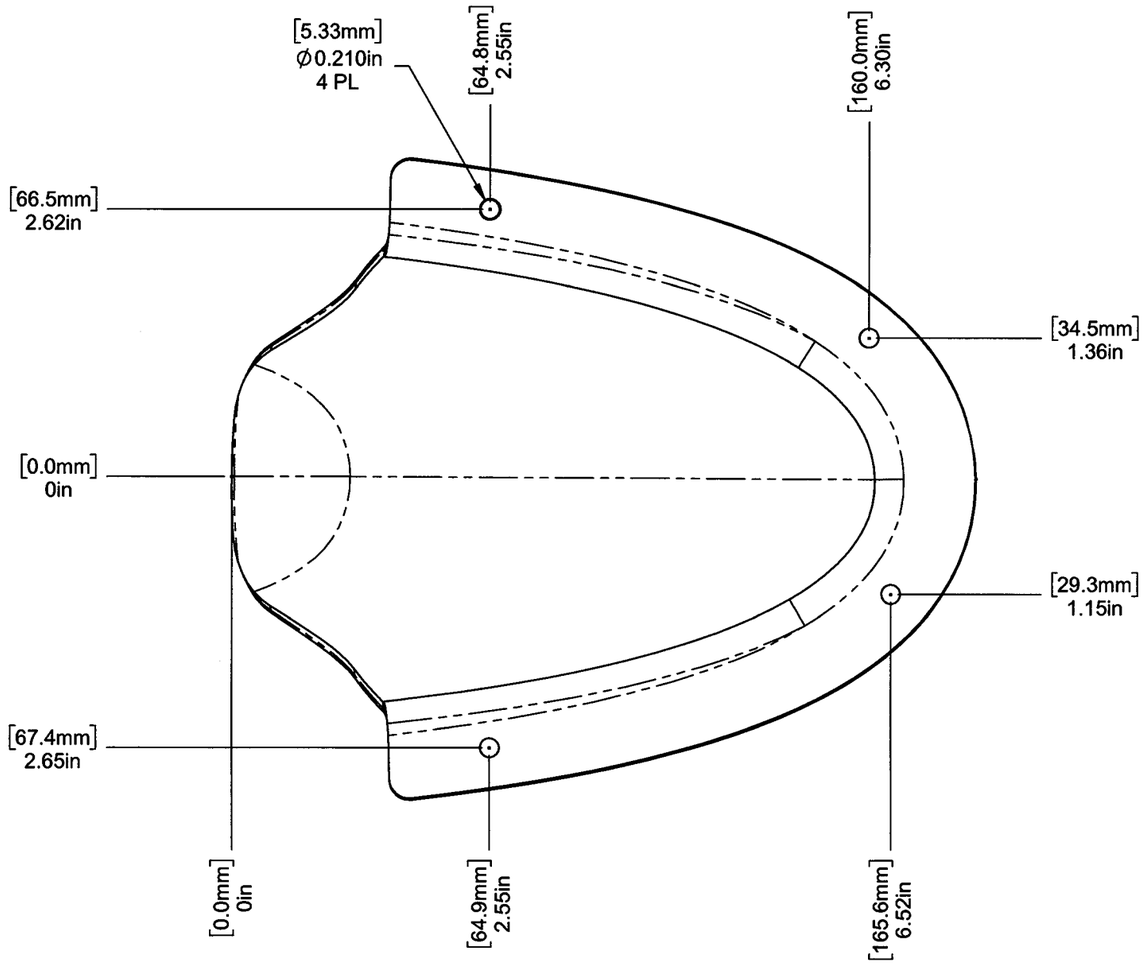
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DRAWING NO. D4857 REV. H
SHEET 5 OF 8

TITLE WIPER DEFLECTOR
SCALE NTS

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## D4857-4 WIPER DEFLECTOR, RH

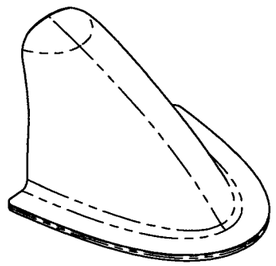
NOTES:
1) MATERIAL: MADE FROM D4857-M
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: N/A
7) WEIGHT: 0.35 lbs (0.16 kg)
8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-4-H.IGES (OR D4857-4-H.STEP)

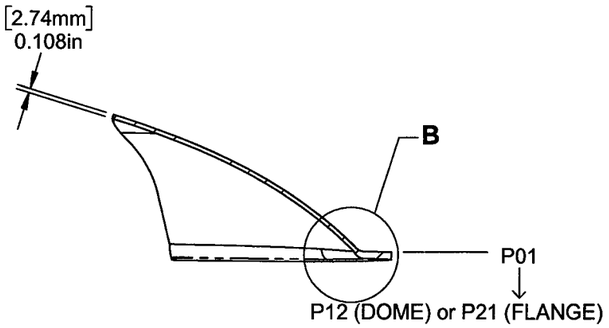
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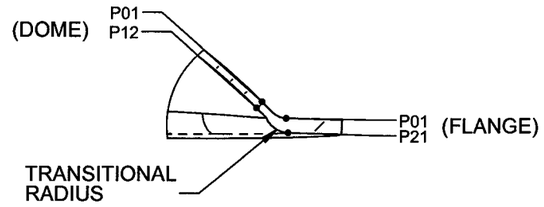
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|---|---|---|
| DESIGN | DW | DART AEROSPACE LTD |
| DRAWN | SAD | HAWKESBURY, ONTARIO, CANADA |
| CHECKED | RF | DRAWING NO. D4857 REV. H |
| MFG. APPR. | JFS | SHEET 6 OF 8 |
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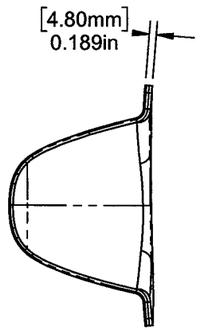


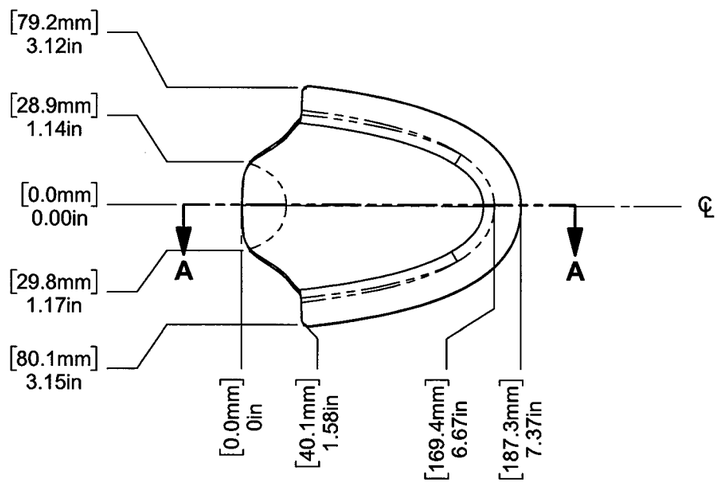


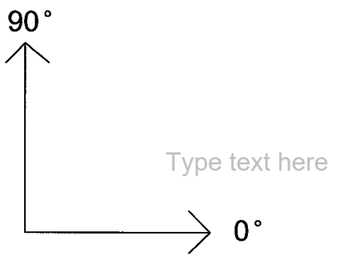

**SECTION A-A**




**DETAIL B**




**D4857-M WIPER DEFLECTOR**

NOTES:

1. MATERIAL: KEVLAR #285/353 4H SATIN, EPOXY PREPREG, 250°F CURE, 40% R/C
2. MATERIAL: CARBON FIBER PREPREG, ALDILA PREPREG SYSTEM 3K2X2-FR250-204/40 T300,
3. MATERIAL: ALDILA #120 E-GLASS AR250 WITH 48% RC;
4) FINISH: PRIMER IAW MIL-P-85582, 2-7 MIL MAX,
5) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
6) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
7) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
8) IDENTIFICATION: N/A
9) WEIGHT: 0.35 lbs (0.16 kg)
10) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-M-H.IGES (OR D4857-M-H.STEP)
11) SEE SHEET 8 FOR LAYUP SCHEDULE. MANUFACTURE IAW MPP 145. CURE 250°F FOR 4 HOURS.

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| DRAWN | SAD | |
| CHECKED | RF | DRAWING NO. D4857 REV. H |
| MFG. APPR. | JFS | SHEET 7 OF 8 |
| APPROVED | CP | TITLE WIPER DEFLECTOR SCALE NTS |
| DE APPR. | CP | |
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## LAYUP OF LAYER (H)

| DOME LAMINATE - .108in (12 LAYERS) ANGLE | DOME PLY | FLANGE LAMINATE - .189in (21 LAYERS) PLY | FLANGE ANGLE | MATERIAL | THICKNESS |
|---|---|---|---|---|---|
| 90 | 01 | 01 | 90 | [1] KEVLAR | 0.008-0.010 |
| 0 | 02 | 02 | 0 | [1] KEVLAR | 0.008-0.010 |
| 90 | 03 | 03 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| | | 04 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| 0 | 04 | 05 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| | | 06 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| 90 | 05 | 07 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| | | 08 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| 0 | 06 | 09 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| | | 10 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| 90 | 07 | 11 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| | | 12 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| 0 | 08 | 13 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| | | 14 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| 90 | 09 | 15 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| | | 16 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| 0 | 10 | 17 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| | | 18 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| 90 | 11 | 19 | 90 | [2] CARBON FIBER | 0.008-0.010 |
| 0 | 12 | 20 | 0 | [2] CARBON FIBER | 0.008-0.010 |
| | | 21 | 90 | [3] E-GLASS | 0.005 |

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| | | |
|---|---|---|
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| MFG. APPR. | JFS | SHEET 8 OF 8 |
| APPROVED | CP | TITLE WIPER DEFLECTOR SCALE NTS |
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